

CLASSIFICATION SECRET/CONTROL - U.S. OFFICIALS ONLY

SECURITY INFORMATION

CENTRAL INTELLIGENCE AGENCY

REPORT NO. [REDACTED]

CD NO.

INFORMATION REPORT

COUNTRY East Germany

DATE DISTR. 27 September 1952

25X10 SUBJECT Reports by the NEF Department of the HF Telecommunications Plant in Berlin-Oberschoeneweide

PLACE ACQUIRE [REDACTED]

NO. OF ENCLS. 3(25 pages)
(LISTED BELOW)

DATE OF ACQUIRE [REDACTED]

SUPPLEMENT TO REPORT NO.

25X1X

The attached material is forwarded to you for retention.

25X1A

HS PH COF DH
LEM R W E
UC ~~U~~ S ~~dis~~ B
LB C D S M CS A ~~W~~
RIZ S E N D ms R
return
retain / destro

By 31 Nov

THIS DOCUMENT HAS AN ENCLOSURE ATTACHED
DO NOT DETACH

EXPLOITED BY IR

CLASSIFICATION SECRET/CONTROL - U.S. OFFICIALS ONLY

25X1A

SECRET CONTROL
U.S. OFFICIALS ONLY

THIS IS AN ENCLOSURE TO

25X1A

Attached in the Annex are copies of four reports by the NEF Department (Nachrichtentechnische Entwicklung und Fabrikation) (Development and Production of Signal-Communications Equipment) of the HF Telecommunications Plant at 1-5 Ostendstrasse, Berlin-Oberschoeneweide. The entire reports were photographed but prints were made of only the more important pages. Annex 1 is a report, dated 27 July 1950, prepared by one Kurt Steffenhagen and one Kirschnig (fnu), concerning the conversion of a 2-kilocycle-per-second sine oscillation (2 kHz Sinus-Schwingung) into code impulses, employing a 12-channel system, and its reconversion at the receiving end; and a report, dated 28 May 1950, by Kurt Steffenhagen and by Kirschnig concerning a treatise "An Experimental Multichannel Pulse-Code-Modulation System of Toll Quality" by L. A. Meacham and E. Peterson, Bell System Technical Journal, Volume 27, No 1, 1948, pages 1 to 43. The reports are based exclusively on previous American and German publications, which are listed on page 42 of the Annex. A brief summary of these publications has been published by Dipl. Ing. Kurt Steffenhagen in the "Nachrichtentechnik" (Signal-Communications Engineering, 1952, No 1, pages 24 to 27; and

No 3, pages 79 to 83. Annex 2 is a report, dated 10 August 1950, by one Springstein (fnu), concerning experiments with mixing diodes. Annex 3 is a report, dated 31 December 1950, by one Lauenroth (fnu), concerning the development of EWT side-band sets. This development of EWT sets for telephony over high-tension lines is based on research work performed in 1949 on Soviet orders. Four sample sets built for the high-tension net of Eastern Germany were tested on the Friedrichsfelde (N 53/Z 94)-Weimar (M 51/J 57) line in early 1951.

SECRET CONTROL
U.S. OFFICIALS ONLY

BEST COPY
Available

25X1

Approved For Release 2002/08/15 : CIA-RDP83-00415R012800020003-4

Next 24 Page(s) In Document Exempt

Approved For Release 2002/08/15 : CIA-RDP83-00415R012800020003-4